SENT BY: NATH & ASSOCIATES;

PATENT

Attorney Docket No. 24584

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

VAN DUIJN et al.

Examiner: J. Goldberg

Serial No.: 09/973,180

Art Unit: 1634

Filed:

October 10, 2001

DIAGNOSTICS AND THERAPEUTICS FOR AUTOSOMAL DOMINANT

HEMOCHROMATOSIS

STATEMENT OF SEQUENCE LISTING

As required by 37 CER- 1.821 (e)-(g) and 1.825 (a)-(b), applicants state that the application, as filed, supports the amendments to the sequence listing and that the attached replacement paper and computer readable forms of the sequence listing do not contain new matter. Further, the sequence listing information recorded in computer readable form is identical to the written sequence listing and contain no new matter.

Respectfully submitted,

NATH & ASSOCIATES PLLC

Date: 29 Jan 2004

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complete seq list.ST25.txt SEQUENCE LISTING

<110> van Duijn, C. M. Heutink, P. Oostra, B. A. <120> DIAGNOSTICS AND THERAPEUTICS FOR AUTOSOMAL DOMINANT **HEMOCHROMATOSIS** 24584 <130> 09/973,180 <140> <141> 2001-10-10 <150> 60/301,429 <151> 2001-06-29 <160> <170> PatentIn version 3.2 <210> $\bar{2}443$ <211> <212> DNA < 21.3 >Homo sapiens <220> <221> mutation <222> (733)..(735)<400> 1 agctggctca gggcgtccgc taggctcgga cgacctgctg agcctcccaa accgcttcca 60 taaggetttg ettteeaact teagetacag tgttagetaa gtttggaaag aaggaaaaaa 120 180 gaaaatccct gggccccttt tcttttgttc tttgccaaag tcgtcgttgt agtctttttg: cccaaggctg ttgtgttttt agaggtgcta tctccagttc cttgcactcc tgttaacaag 240 300 cacctcagcg agagcagcag cagcgatagc agccgcagaa gagccagcgg ggtcgcctag 360 tgtcatgacc agggcqggag atcacaaccg ccagagagga tgctgtggat ccttggccga ctacctgacc tetgcaaaat teetteteta eettggteat teteteta ettggggaga 420 teggatgtgg caetttgegg tgtetgtgtt tetggtagag etetatggaa acageeteet 480 tttgacagca gtctacgggc tggtggtggc agggtctgtt ctggtcctgg gagccatcat 540 600 cggtgactgg gtggacaaga atgctagact taaagtggcc cagacctcgc tggtggtaca 660 gaatgtttca gtcatcctgt gtggaatcat cctgatgatg gttttcttac ataaacatga rettetgace atgtaceatg gatgggttet caetteetge tatateetga teateactat 720 780 tgcaaatatt gcacatttqq ccagtactgc tactgcaatc acaatccaaa gggattggat tgttgttgtt gcaggagaag acagaagcaa actagcaaat atgaatgcca caatacgaag 840 gattgaccag ttaaccaaca tcttagcccc catggctgtt ggccagatta tgacatttgg 900 960 ctccccagtc atcggctgtg gctttatttc gggatggaac ttggtatcca tgtgcgtgga Page 1

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Page 2

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Ile His Glu Leu Glu His Glu Gln Glu Pro Thr Cys Ala Ser Gln Met 275 280 285

Ala Glu Pro Phe Arg Thr Phe Arg Asp Gly Trp Val Ser Tyr Tyr Asn 290 295 300

Gln Pro Val Phe Leu Ala Gly Met Gly Leu Ala Phe Leu Tyr Met Thr 305 315 320

Val Leu Gly Phe Asp Cys Ile Thr Thr Gly Tyr Ala Tyr Thr Gln Gly 325 330 335

Leu Ser Gly Ser Ile Leu Ser Ile Leu Met Gly Ala Ser Ala Ile Thr 340 345

Gly Ile Met Gly Thr Val Ala Phe Thr Trp Leu Arg Arg Lys Cys Gly 355 360 365

Leu Val Arg Thr Gly Leu Ile Ser Gly Leu Ala Gln Leu Ser Cys Leu 370 380

Ile Leu Cys Val Ile Ser Val Phe Met Pro Gly Ser Pro Leu Asp Leu 385 390 395

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Gln Gln Asn Val Ile Glu Ser Glu Arg Gly Ile Ile Asn Gly Val Gln 485 490 495

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Leu Ala Pro Asn Pro Glu Ala Phe Gly Leu Leu Val Leu Ile Ser Val 515 520 525 Page 4

Ser Phe Val Ala Met Gly His Ile Met Tyr Phe Arg Phe Ala Gln Asn 530 540

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Phe Leu Val Glu Leu Tyr Gly Asn Ser Leu Leu Leu Thr Ala Val Tyr 50 55 60

Gly Leu Val Val Ala Gly Ser Val Leu Val Leu Gly Ala Ile Ile Gly 65 70 75 80

Asp Trp Val Asp Lys Asn Ala Arg Leu Lys Val Ala Gln Thr Ser Leu 85 90 95

Val Val Gln Asn Val Ser Val Ile Leu Cys Gly Ile Ile Leu Met Met 100 105 110

Val Phe Leu His Lys His Glu Leu Leu Thr Met Tyr His Gly Trp Val 115 120 125

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Leu Ala Ser Thr Ala Thr Ala Ile Thr Ile Gln Arg Asp Trp Ile Val Page 5

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Page 6

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Ser Val Pro Ile Ile Ser Val Ser Leu Leu Phe Ala Gly Val Ile Ala 450 460

Ala Arg Ile Gly Leu Trp Ser Phe Asp Leu Thr Val Thr Gln Leu Leu 465 470 475

Gln Glu Asn Val Ile Glu Ser Glu Arg Gly Ile Ile Asn Gly Val Gln 485 490 495

Asn Ser Met Asn Tyr Leu Leu Asp Leu Leu His Phe Ile Met Val Ile 500 505 510

Leu Ala Pro Asn Pro Glu Ala Phe Gly Leu Leu Val Leu Ile Ser Val 515 520 525

Ser Phe Val Ala Met Gly His Ile Met Tyr Phe Arg Phe Ala Gln Asn 530 540

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Homo sapiens

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Phe Leu Val Glu Leu Tyr Gly Asn Ser Leu Leu Leu Thr Ala Val Tyr 50 55 60

Gly Leu Val Val Ala Gly Ser Val Leu Val Leu Gly Ala Ile Ile Gly 65 70 75 80

Asp Trp Val Asp Lys Asn Ala Arg Leu Lys Val Ala Gln Thr Ser Leu 85 90 95

val val Gln Asn val Ser val Ile Leu Cys Gly Ile Ile Leu Met Met 100 105 110

Val Phe Leu His Lys His Glu Leu Leu Thr Met Tyr His Gly Trp Val 115 120 125

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Lys Val Tyr Gln Lys Thr Pro Ala Leu Ala Val Lys Ala Gly Leu Lys 225 230 235 240

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Ile His Glu Leu Glu His Glu Gln Glu Pro Thr Cys Ala Ser Gln Met Page 8

PAGE 21/27

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202 775 0146;

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Page 9

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22

15

15